PATENT ABSTRACTS OF JAPAN

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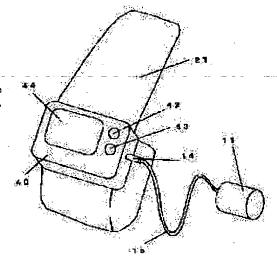
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(54) CIRCULATORY FUNCTION DIAGNOSTIC DEVICE

PROBLEM TO BE SOLVED: To clarify an operation state to the blood pressure of a testee by diagnosing the state of the circulatory function of the testee by using the blood pressure indicating the load of a blood circulatory system at present and the waveform pattern of acceleration pulse waves indicating the operation state of the blood circulatory system at present.

SOLUTION: When the testee winds a cuff 21 around the wrist, fixes a pulse wave detection means 11 to the finger of a hand by a fixing tool, connects it to a main body and then presses a circulatory function diagnosis start button 43, the sampling of the pulse waves is started first, light is radiated from a light emitting element, and when the finger of the testee is exposed to the light, since hemoglobin and water in blood absorb it with strong selectivity, a light quantity after being transmitted through or reflected from the finger accurately reflects the increase/decrease of a blood amount. In a light receiving element, a resistance value is changed corresponding to the change of the transmitted or reflected light quantity, and by converting it to a voltage signal, the increase/decrease of the blood amount by the beat of the heart is converted to the voltage signal and taken out.



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